

**To:** Rob Runkel[runkel@usgs.gov]; Wall, Dan[wall.dan@epa.gov]  
**Cc:** Schmittiel, Paula[Schmittiel.Paula@epa.gov]  
**From:** Peter Butler  
**Sent:** Mon 9/29/2014 7:25:04 PM  
**Subject:** Water Quality Standards for Upper Animas River  
Upper Animas WQ STDS.pdf

Rob and Dan – Attached are the actual water quality standards adopted for the Upper Animas River in 2001. There are several metals at the gaging stations that have site specific values other than Table Value Standards (TVS). The specific values are monthly standards on the last three pages. I never liked using monthly standards as opposed to seasonal standards, but that is what we ended up with. I'm quite sure this is the only location in the state with monthly water quality standards.

Segment 3a is measured at A68 and segment 4a is measured at A72. Segment 9 is measured at M34.

At the time these standards were adopted, TVS for cadmium was much less stringent than today. If we had had today's cadmium TVS, we would have pushed for site specific cadmium numbers, because today's cadmium TVS is generally unattainable in the upper Animas. Zinc and Aluminum TVS have also changed since 2001 but not dramatically.

There were some temporary modifications to the standards that have expired, except for ones on segment 3b (Animas from Cement Cr. to Mineral Cr. which are in place to help the Silverton wastewater treatment plant. It gets some groundwater infiltration.) There are also some arsenic temp. mods. , but those are designed to address a statewide issue and have nothing to do specifically with the Animas.

Let me know if you have any questions.

Peter Butler

970-259-0986

Cell 970-317-0584